



NASA HBCU/MSI TECHNOLOGY INFUSION ROAD TOUR

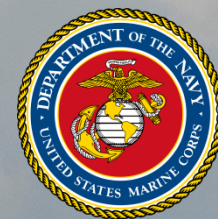
**University of Nevada - Las Vegas
January 10-12, 2017**

**Research and Educational
Opportunities within the
Navy and US Marine Corps**

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Presented by
Brian Shipley, SBIR/STTR Support

Distribution Statement A: Approved for public
release



The Office of Naval Research

The S&T Provider for the Navy and Marine Corps



- 4,000+ People
- 23 Locations
- \$2.1B / year
- >1,000 Partners



Discover



Develop



Deliver



Technological
Advantage

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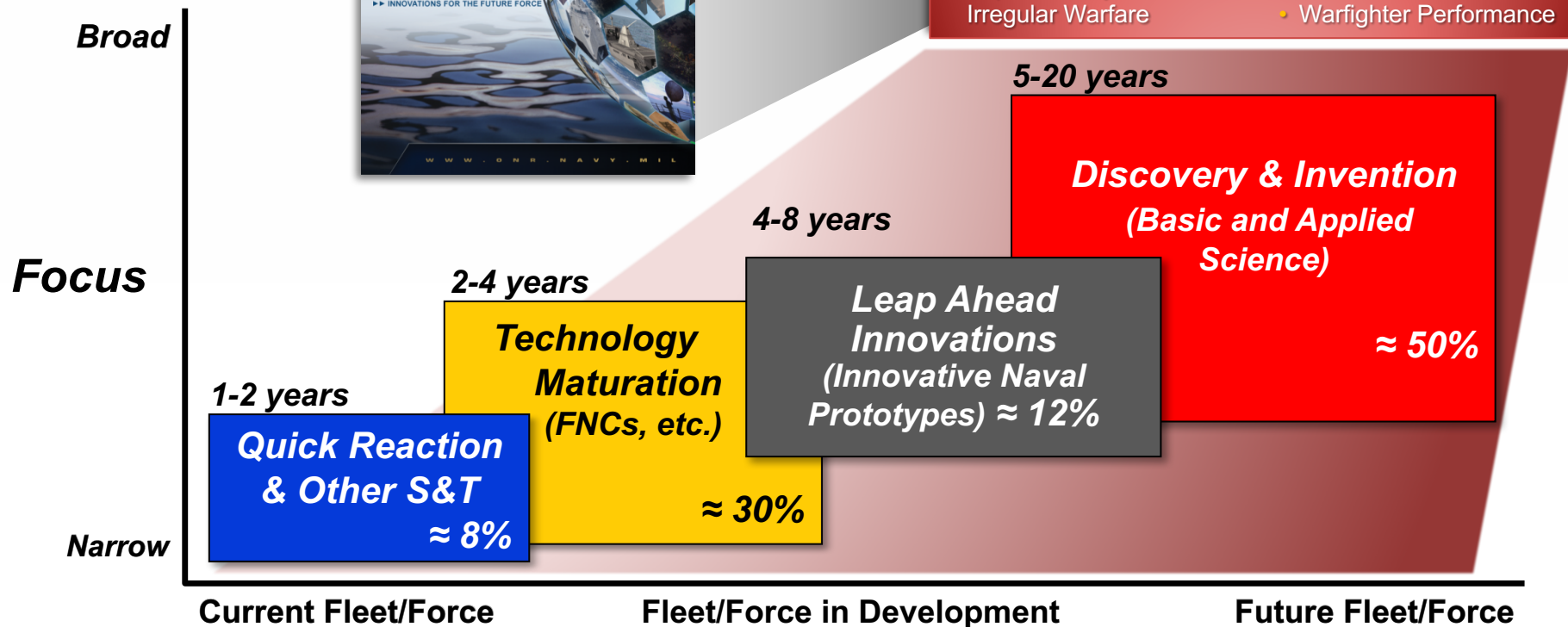


Warfighting Capabilities Enabled by S&T Investments



Naval S&T Strategy Focus Areas

- Assure Access to Maritime Battlespace
- Autonomy & Unmanned Systems
- Electromagnetic Maneuver Warfare
- Expeditionary & Irregular Warfare
- Information Dominance/Cyber
- Platform Design & Survivability
- Power & Energy
- Strike & Integrated Defense
- Warfighter Performance



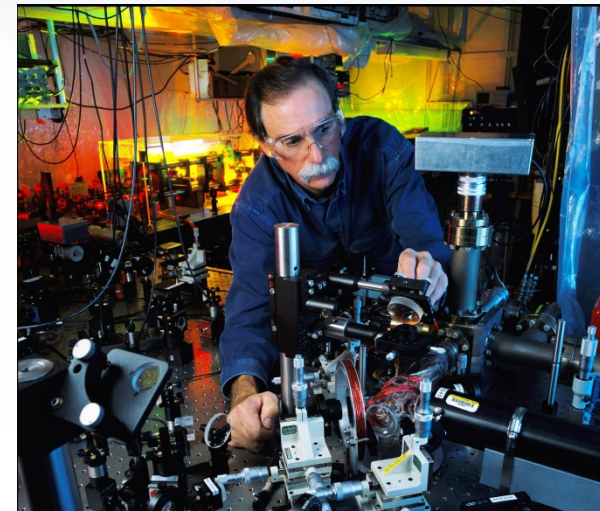
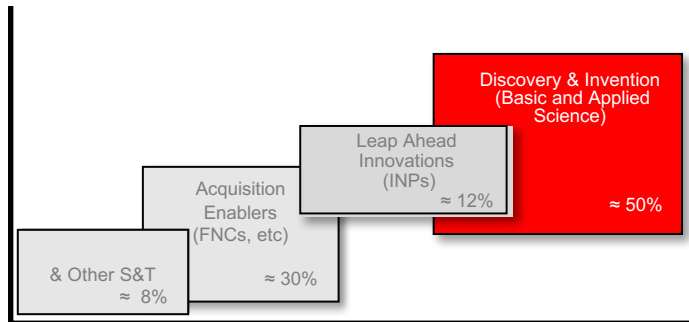
Portfolio is balanced across near, mid and long term S&T investments



Discovery & Invention

Discovery & Invention S&T is the essential foundation required for advanced technology 5-20 years out

- Basic Research and early Applied Research
- All research maps to the Naval S&T Strategic Plan
- Projects are the building blocks for Future Naval Capabilities (FNCs) and Innovative Naval Prototypes (INPs)



Dr. David Wineland won the 2012 Nobel Prize in Physics for his work in quantum computing.

Creativity Thrives in Discovery and Invention



Discovery & Invention

University Research Programs

- **Multidisciplinary University Research Initiative (MURI)**
 - Involves teams of researchers investigating high priority topics that intersect more than one traditional technical discipline
 - Awards = \$1.5M for three years
- **Defense University Research Instrumentation Program (DURIP)**
 - Supports university research infrastructure essential to high-quality naval-relevant research through purchase of high-cost research equipment
 - Awards from \$50K to \$1.5M
- **Presidential Early Career Award for Scientists & Engineers (PECASE)**
 - Recognizes and honors extraordinary achievements of young professionals at the outset of their independent research careers in S&T
 - Award is \$200K for five years
- **Vannevar Bush Faculty Fellowship (VBFF)**
 - Provides extensive, long-term financial support to distinguished university faculty and staff scientists and engineers to conduct unclassified, basic research on topics of interest to DoD
 - Max award is \$3M for five years

POC: Dr. Ellen Livingston, ellen.s.livingston@navy.mil



Discovery & Invention

Enterprise Research Programs

- **Basic Research Challenge (BRC)**
 - Competitively selects and funds promising research programs in new areas not addressed by the current basic research program
 - Stimulates new, high-risk basic research projects in multidisciplinary and departmental collaborative efforts
 - Average award is \$6M per topic over 4 years
- **Applied Research Challenge (ARC)**
 - Stimulates new applied research projects in areas not currently addressed by the departmental core applied research programs and explores feasibility of basic research with high risk and significant potential naval payoffs
 - Each department receives \$4M over a 4 year period
- **Young Investigator Program (YIP)**
 - Supports academic science and engineering faculty who been on tenure track within the last five years and show exceptional promise for doing creative research
 - Proposals may request up to \$170k per year for 3 years

POC: Reginald Williams, reginald.g.williams@navy.mil



Education & Workforce

The Education & Workforce portfolio raises awareness of naval career opportunities, attracts and nurtures the future talent pool, and fosters the continued development of the current naval science, technology, engineering, and mathematics (STEM) workforce

- Laboratory Workforce Initiatives
- STEM Initiatives

Promote and Develop STEM Workforce & Capabilities



Education & Workforce

Laboratory Workforce Initiatives

- Science and Engineering Apprenticeship Program (SEAP)
 - Encourages high school students to pursue careers in STEM
 - Furthers students' education via mentoring by laboratory personnel; gets students to participate in ongoing research
 - Includes eight weeks under guidance of a mentor from one of 25 labs
 - POC: naval_internships@navy.mil
 - Apply at <http://seap.asee.org/>
- Naval Research Enterprise Internship Program (NREIP)
 - Undergraduate or graduate research internship at one of nearly 30 naval laboratories or warfare centers
 - Ten week internship providing hands on experience and research skills
 - Interns receive stipends based on their class standing ranging from \$5,400- \$10,800
 - POC: naval_internships@navy.mil
 - Apply at <http://seap.asee.org/>



Education & Workforce

STEM Initiatives

- Naval Science Awards Program (NSAP)
 - Encourages students to develop and retain interest in STEM
 - Recognizes accomplishments of eligible students at regional/state science and engineering fairs
 - POC: naval_STEM@navy.mil
 - Apply at <https://secure.onr.navy.mil/nsap/>
- Science, Mathematics & Research for Transformation (SMART)
 - Opportunity for students pursuing a an undergraduate and graduate degree in STEM disciplines to receive full scholarship and be gainfully employed upon degree completion
 - SMART Scholars are paid students at a rate of \$25,000- \$38,000 depending on degree
 - POC: smart@asee.org
 - Apply at <http://smart.asee.org/>
- National Defense Science & Engineering Graduate Fellow Program (NDSEG)
 - Fellowships for study and research leading to doctoral degrees in science and technical areas
 - Students receive stipends for 12-month tenures



Education & Workforce

STEM Initiatives

- Summer Faculty Research
 - Science and engineering faculty from institutions of higher education
 - Opportunity to participate in research at naval labs for a 10 week period
 - Stipends ranging from \$1,400-\$1,900 per week
 - POC: daniel.vontilla.ctr@navy.mil
- Faculty Sabbatical Leave
 - Science and engineering faculty
 - Opportunity to participate in research at naval labs while on sabbatical
 - Monthly stipend making up the difference between salary and sabbatical leave pay
 - POC: daniel.vontilla.ctr@navy.mil



ONR Research Opportunities

<http://www.onr.navy.mil/Contracts-Grants/Funding-Opportunities.aspx>

Who should I talk to?

Discovery & Invention Opportunities

The screenshot shows the ONR Research Opportunities website. A red arrow points from the text 'Who should I talk to?' to the 'Technology Locator' link in the top navigation bar. Another red arrow points from the text 'Discovery & Invention Opportunities' to the 'Education & Outreach' link in the main navigation bar. The 'Technology Locator' link is circled in red. The 'Education & Outreach' link is also circled in red. In the left sidebar, the 'Solicitations' link is circled in red, and the 'Broad Agency Announcements' link is also circled in red. The main content area is titled 'Solicitations' and lists various funding opportunities with brief descriptions and links to current announcements, RFIs, RFPs, RFQs, and Special Notices.

Technology Locator | Glossary | Careers | Events

ONR Global | Marine Corps Warfighting Lab | Naval Research Laboratory | Naval Research Advisory Committee

About ONR | Science & Technology Organization | Contracts & Grants | **Education & Outreach** | News & Media

Home » Contracts & Grants » Solicitations

Contracts & Grants

Solicitations

Broad Agency Announcements

Requests for Information

Requests for Proposals

Requests for Quotes

Special Notices

SeaPort-e

Submit a Proposal

Manage Your Contract

Manage Your Grant

Solicitations

- **Broad Agency Announcements (BAAs):** A BAA announces an agency's research interests including criteria for selecting proposals and soliciting the participation of all offerors capable of satisfying the government's needs. [See current BAAs](#)
- **Requests for Information (RFIs):** An RFI is used when a government agency does not presently intend to award a contract, but wants to obtain price, delivery, other market information or capabilities for planning purposes. Responses to these notices are not offers and cannot be accepted by the government to form a binding contract. [See current RFIs](#)
- **Requests for Proposals (RFPs):** An RFP is used in negotiated acquisitions to communicate government requirements to prospective contractors and to solicit proposals. [See current RFPs](#)
- **Requests for Quotes (RFQs):** An RFQ is a solicitation that provides in exacting detail a list or description of all relevant parameters of the requirement. RFQs are best suited to commercial products and services. [See current RFQs](#)
- **Special Notices:** These notices provide information about Industry Days, other events and other information that, while not captured in one of the other funding announcements, may be relevant to a given opportunity. [See current Special Notices](#)
- **Multiple-Award Task Order Contracts (MATOCs):** MATOCs were previously used by ONR for acquiring support services. As of Oct. 1, 2009, ONR now uses SeaPort-e for acquiring support services.
- **SeaPort-e:** This portal is the Nav's electronic platform for acquiring support services in 22 functional areas including



Navy SBIR/STTR

navysbir.com

What's unique to Navy?

- \$350M program with over 700 awards annually
- Acquisition driven process with strong technology pull
- Topic developed at the program and project level
- Competitive Phase I NTE \$225K, 1 YR POP
- Competitive Phase II NTE \$1.5M, 3 YR POP
- Eligibility for Subsequent Phase II NTE \$1.5M, 2 YR
- Commercialization support (<https://navystp.com/>)
 - SBIR/STTR transition Program (STP)
 - Forum for SBIR/STTR Transition (FST)
- Commercialization Readiness Program (CRP)
 - Accelerate the transition of technologies, products, and services developed under the SBIR program
 - Risk and manufacturing assessments; exercise and demonstration participation



SBIR/STTR Research Opportunities

<http://www.acq.osd.mil/osbp/sbir/>

BAA 17.1 and 17.A = over 400 topics



U.S. Department of Defense
SMALL BUSINESS INNOVATION RESEARCH
SMALL BUSINESS TECHNOLOGY TRANSFER



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for Government

Awards

Contacts

DOD Broad Agency Announcements (BAA)

SBIR 17.1
STTR 17.A **PRE-RELEASE**

Announcements open on January 10, 2017 | View topics now at <https://sbir.defensebusiness.org>



Research Directorate Leadership



Director of Research

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**Deputy Director of
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Discovery & Invention

Dr. Joan Cleveland

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**University Research
Initiatives**

Dr. Ellen Livingston

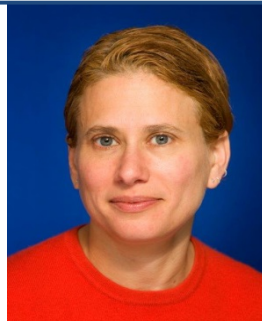
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Enterprise Research

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HBCU/MI

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